1 Name and Scope of the Study Programme
The programme is provided by the University of Skövde and is named Biomedicine - Study Programme. It comprises 180 credits.

2 General Objectives
Courses and study programmes on the basic level shall develop:

- the ability of students to make independent and critical assessments,
- the ability of students to identify, formulate and solve problems autonomously, and
- the preparedness of students to deal with changes in working life.

In addition to knowledge and skills in their field of study, students shall develop the ability to:

- gather and interpret information at a scholarly level,
- stay abreast of the development of knowledge, and
- communicate their knowledge to others, including those who lack specialist knowledge in the field.

(Objectives for courses and study programmes on the basic level, The Higher Education Act)

3 Programme Objectives
The major field of study is Biomedicine.

Objectives of the Bachelor’s degree in Higher Education are

Knowledge and understanding
For a Bachelor’s Degree, the student should be able to

- demonstrate knowledge and understanding in the major subject area including knowledge of the scientific basis, methodologies in the field, specialization within a sub-area and understanding of current research directions.

Skills and abilities
For Bachelor’s Degree, the student should be able to

- demonstrate the ability to search, evaluate and critically interpret relevant information in a study case and to critically discuss relevant phenomena, issues and situations,
- demonstrate the ability to identify, formulate and solve problems and to perform tasks within specified time limits,
- demonstrate the ability to orally and in writing explain and discuss information, problems and solutions in dialogue with different groups, and
- demonstrate the skills required to independently work within the educational field.

Critical judgment and approach
For Bachelor’s Degree, the student should be able to

- demonstrate skills in the major field of study, make evaluations with respect to relevant scientific, social and ethical aspects,
demonstrate an understanding of the role of knowledge in society and people’s responsibility for application of knowledge, and

demonstrate the ability to identify their individual needs for further knowledge and developing their skills.

Local objectives for the programme at the University of Skövde

After completion of the programme, the student should be able to

- demonstrate knowledge and skills related to digitalization for sustainable development in the field of biomedicine
- demonstrate good knowledge and understanding of how digitalization can be used in the work of understanding the development of diseases and promoting health

4 Programme Content

The education programme is based on the academic Biomedicine subject area with focus on sustainable health. The courses are organized thematically, one for each year. The theme for the first year is "Basic knowledge in biomedicine and health" which consists of basic courses in cell biology, chemistry, genetics, microbiology and immunology. The first year provides a solid base for the subject area necessary for further studies into biomedicine and sustainable health.

The theme for the second year are therefore "In-depth knowledge in biomedicine and health promotion" and consists of courses in human physiology, metabolism, neurobiology, training physiology, psychiatry and health promotion, and also a course in ethics and methodology in biomedicine. During the second year, the knowledge in chemistry becomes more in-depth by a course in biochemistry, and statistics and study design is also covered. Through the courses during the second year the connection between biomedicine and sustainable health, with focus on health promotion is strengthened.

The third and final year has the theme "Cause and treatment during illness" and focuses in the most common endemic diseases such as cancer, circulatory diseases, diabetes and mental illness. These will be covered during the first semester of the third year through courses in pathophysiology, pharmacology and tumor- and stem cell biology. The final semester consists of a degree project in parallel with a course designed to give the students a good insight into the career opportunities in both industry and academia after finalized bachelor degree. It will also be possible for students to perform their degree project at another university or at companies, if they so prefer.

Laboratory work is fundamental for the Biomedicine - Study Programme and is included in all semesters of the three-year Bachelor’s programme.

The following courses are included in the programme

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Introduction to Biomedicine G1N</td>
<td>6.5</td>
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<tr>
<td>Basic Chemistry G1N</td>
<td>15</td>
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<tr>
<td>Laboratory Basic Course G1N</td>
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<tr>
<td>Cell Biology G1N</td>
<td>7.5</td>
</tr>
<tr>
<td>Microbiology G1N</td>
<td>7.5</td>
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<tr>
<td>Genetics G1N</td>
<td>7.5</td>
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<tr>
<td>Basic Psychiatry G1N</td>
<td>7.5</td>
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<tr>
<td>Introduction to Bioinformatics G1N</td>
<td>7.5</td>
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<tr>
<td>Immunology and Infection Biology G1F</td>
<td>7.5</td>
</tr>
<tr>
<td>Human Physiology and Metabolism G1F</td>
<td>15</td>
</tr>
<tr>
<td>Method and Design in Life Science G1F</td>
<td>7.5</td>
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<tr>
<td>Biochemistry G1F</td>
<td>7.5</td>
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<tr>
<td>Nutrition, Physical Activity and Health Promotion G1F</td>
<td>7.5</td>
</tr>
<tr>
<td>Ethics and Methodology in Biomedicine G1F</td>
<td>7.5</td>
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<tr>
<td>Biomedicine in Practice G1F</td>
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<tr>
<td>Neurobiology and Training Physiology G2F</td>
<td>7.5</td>
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<tr>
<td>Pathophysiology and Pharmacology G2F</td>
<td>20</td>
</tr>
<tr>
<td>Tumor- and Stem Cell Biology G2F</td>
<td>10</td>
</tr>
<tr>
<td>Bachelor Degree Project in Biomedicine G2E</td>
<td>22.5</td>
</tr>
</tbody>
</table>

5 Admission Requirements

The special prerequisites for this programme, besides basic eligibility for university studies, are the following upper secondary school courses Mathematics B, Science studies B, English B or Mathematics 2a / 2b / 2c, Science studies 2, English 6. The corresponding English proficiency can normally be shown by an internationally recognized language test, such as IELTS or TOEFL (or equivalent).

The above admission requirements apply for admission to the programme. For further studies within the programme, the admission requirements for each course must be complied with. These admission requirements are specified in each separate course syllabus.
6 Degree
Students who complete the programme with at least a pass grade meet the general requirements for a Degree of Bachelor of Science with a major in Biomedicine.

Degrees are awarded after application. Information about how to submit an application can be found on the University's website.

7 Approval of Study Programme and Programme Syllabus
The study programme was established by the University governing board at the University of Skövde on 13 December 2001. This programme syllabus was ratified by the Curriculum Committee for Health Sciences on 30 September 2020. It is valid from the autumn semester of 2021 and replaces the programme syllabus ratified on 26 August 2020.

8 Changes to the Programme Syllabus
The programme studies are carried out in accordance with the current programme syllabus in effect at the time when the studies were initiated, provided that the structure of the programme is followed and that no leave of studies has been granted.

In the event of continued studies after a period of approved leave of studies, the students is to follow the programme syllabus in effect the term that the student resumes his/her studies. If substantial changes to the programme syllabus have been made, the student may contact a student and career counsellor in order to set up an individual study plan.

Reservations are made for the fact that the programme syllabus and its courses are subject to change, within the framework of the objectives of the programme.

9 Additional Information
The teaching is conducted in English.

Further information about the study programme will be available on the University’s web pages prior to a programme start.

National and local regulations for higher education are available on the University’s website.

During the programme, as well as after its completion, there are follow-ups. The main purpose of these follow-ups is to contribute to improvements of the programme. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of programme evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.